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boom arms angle sensor coordinate (control C

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### Region limiting excavation **control** system for construction machine

US Pat. 5835874 - Filed Dec 5, 1995 - Hitachi Construction Machinery Co., Ltd.

35, a **control** system of this embodiment includes an inclination **angle sensor** 8rf for detecting a longitudinal inclination **angle** 9 of the body IB, ...

### Front **control** system, area setting method and **control** panel for construction ...

US Pat. 6169948 - Filed Jun 20, 1997 - Hitachi Construction Machinery Co., Ltd.

10 relation to the position and posture of the front device 1A, a tilt **angle sensor** 8rf for detecting a tilt **angle** of the body IB in the back-and-forth ...

### Working machine **control** device for construction machinery

US Pat. 5735066 - Filed Jun 19, 1996 - Komatsu Ltd.

18 shows a **control** configuration for this, in which  $8 = 81 + 62 + 63 - (u/2)$  fyst **boom angle sensor** 10 and second **boom angle sensor** 11 Consequently, ...

### Area limiting excavation **control** system for construction machine

US Pat. 5735065 - Filed Jun 5, 1996 - Hitachi Construction Machinery Co., Ltd.

4. after the operator has operated the front 10 The **boom**-dependent bucket tip ... bucket tip speed body Ib detected by the inclination **angle sensor** JW. ...

### Region limiting excavation **control** system for construction machine

US Pat. 5701691 - Filed Jan 31, 1996 - Hitachi Construction Machinery Co., Ltd.

As a result, the correct target by the inclination **angle sensor** 8d and a detected value ... A2 and **coordinate** system using the transform data from the A3 . ...

### **Boom control** system

US Pat. 4910662 - Filed Nov 23, 1988 - Sundstrand-Sauer

30 One consequence of this polar **coordinate control** is that it is very difficult ... This is due to the fact that the **boom** length and **boom angle** 35 must be ...

### **Boom control** system

US Pat. 4791549 - Filed Nov 20, 1987 - Sundstrand Corporation

One consequence of this polar **coordinate control** is that it is very difficult to ... This is due to the fact that the **boom** length and **boom angle** must be ...

### **Boom control** system

US Pat. 4722044 - Filed Mar 19, 1985 - Sundstrand Corporation

One consequence of this polar **coordinate control** is that it is very difficult to ... This is due to the fact that the **boom** length and **boom angle** must be ...

### Interference prevention system for two-piece **boom** type hydraulic excavator

US Pat. 6230090 - Filed Sep 3, 1998 - Hitachi Construction Machinery Co., Ltd.

The **controller** 50 receives signals from the **angle** sensors 5, 6, 7 and the pressure sensors 25, 26, 27, 28, and outputs **control** signals for controlling the

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